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- PN - DE3213672 A 19831020  
PD - 1983-10-20  
PR - DE19823213672 19820414  
OPD - 1982-04-14  
TI - Actuator for changing electric tools from the operating state "drilling" to the operating state "hammer drilling or percussion drilling" and vice versa  
AB - An actuator for changing electric tools from the operating state "drilling" to the operating state "hammer drilling" or "percussion drilling" and vice versa is to be combined with a safety element in such a way that assembly of the actuator with the safety element is simplified and the expenditure for these parts is reduced to a minimum. This is done according to the invention by the control handle being combined with a flexible safety element containing segments having at least one undercut at their outer periphery. The end faces of the safety element which are obtained by the undercuts, after insertion of the control handle into the receptacle provided in the tool housing, come to bear against the inside of the housing wall and thus secure the control handle against being pulled out.  
IN - GEIS WILHELM DIPL ING (DE)HOYER RUDOLF ING GRAD (DE)  
PA - LICENTIA GMBH (DE)  
EC - B25D16/00M  
IC - B23B45/16  
CT - DE2728961 A [ ]; DE2409206 A [ ]; DE2144449 A [ ]  
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TI - Electric hammer drill mode selection switch - has integral security element preventing removal of switch knob from drill housing  
PR - DE19823213672 19820414  
PN - DE3213672 A 19831020 DW198343 010pp  
- DE3213672 C 19840712 DW198429 000pp  
- CH659202 A 19870115 DW198706 000pp  
PA - (LICN ) LICENTIA PATENT-VERW GMBH  
IC - B23B45/16 ;B25D16/00 ;B28D1/14 ;E21C1/12  
IN - GEIS W; HOYER R  
AB - DE3213672 The switch allows change-over between drilling and hammer drilling operation. It comprises a manual switch knob (25) with an eccentric switch pin (27) fitting into a slot in an axially sliding

coupling sleeve carried by the drive shaft for the drilling and impact mechanism. The switch knob (25) has an integral security element (36) for preventing the knob from being removed once it has been fitted into the corresponding opening in the housing of the drill and comprising one or more spring segments (37) with an outwards projecting lip defining a retaining edge (39) which abuts the rim of the reception opening at the rear.

- Pref. the switch knob (25) and the security element (36) are formed as an injection moulded plastics component into which the switch pin (27) is subsequently pressed.(3/3)

OPD - 1982-04-14

AN - 1983-795987 [43]